

Reference

Tektronix

TDS 820
Digitizing Oscilloscope
070-8511-01

RETURN THIS MANUAL

**IF NOT RETURNED,
YOU WILL BE CHARGED
A MINIMUM OF \$50.00**

PLEASE RETURN TO:

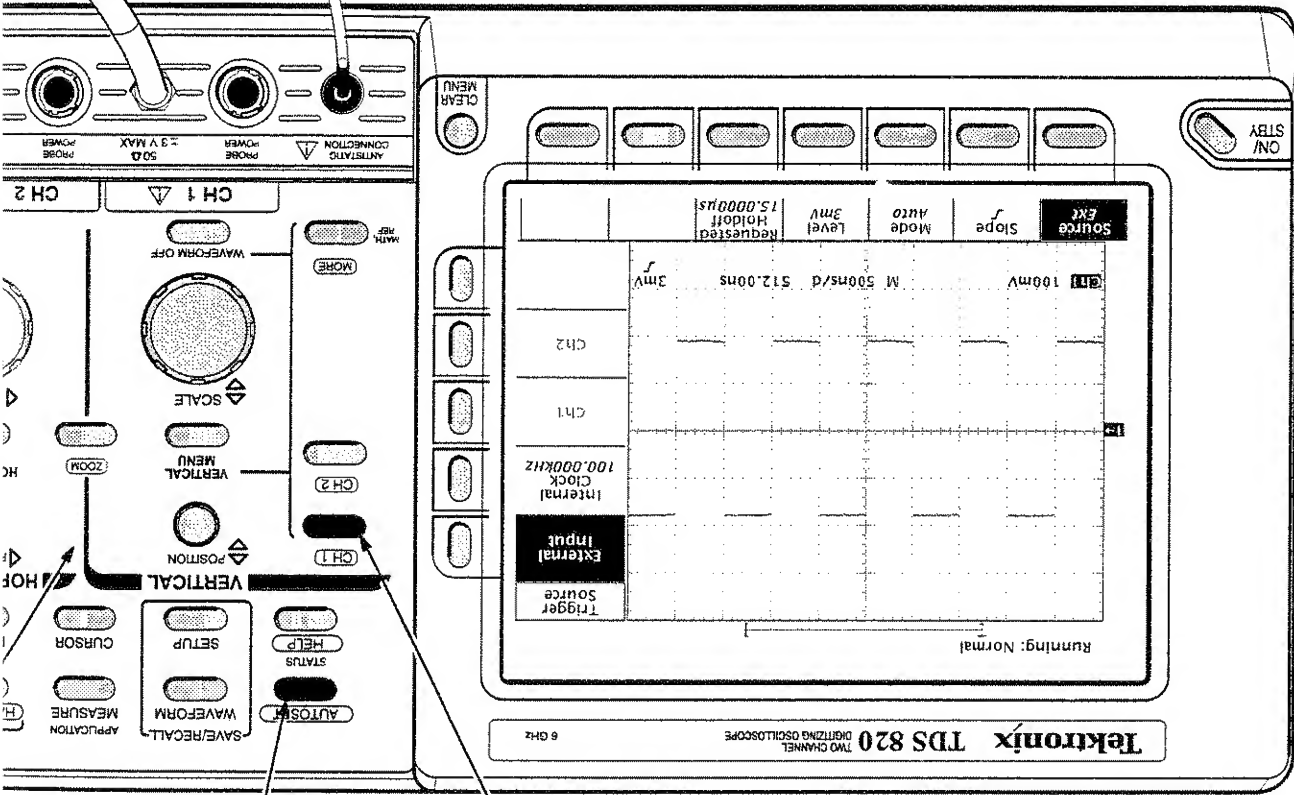
**NEWCOURT FINANCIAL
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LN14004-9

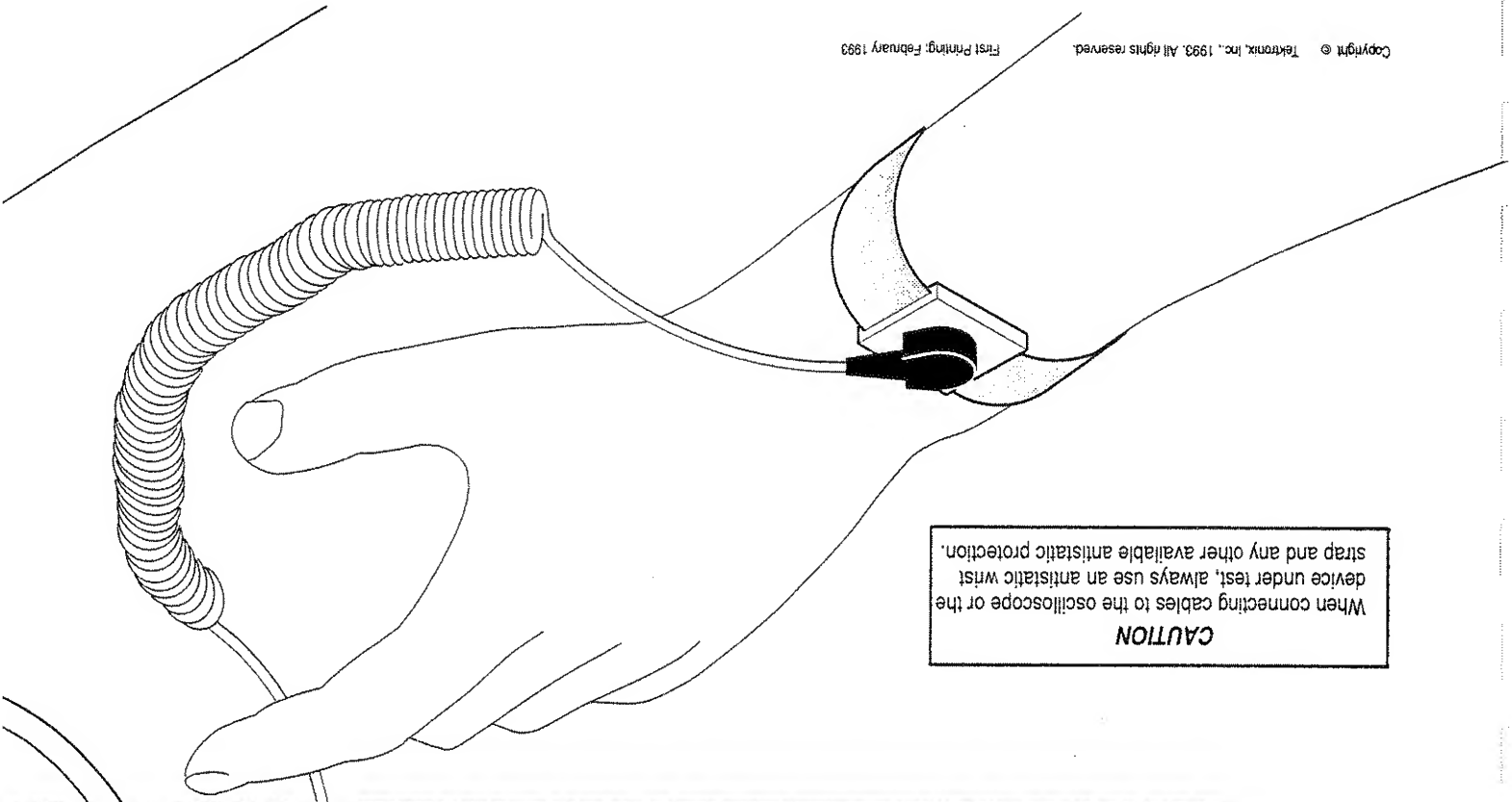
08 January 99

Displaying a Waveform

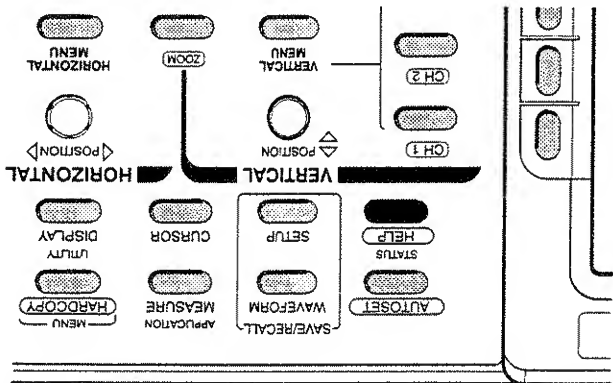
- 1** Put on an antistatic wrist strap
- 2** Attach a cable or probe to CH 1 and hook it up to your signal
- 3** Press CH 1 button
- 4** Press AUTOSET



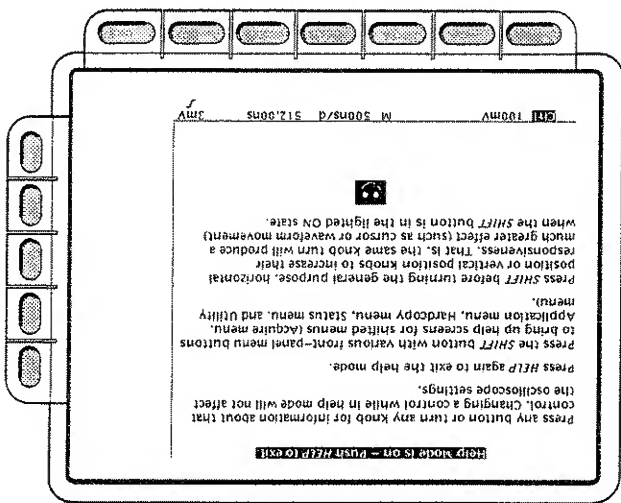
CAUTION
When connecting cables to the oscilloscope or the device under test, always use an antistatic wrist strap and any other available antistatic protection.



On-Line Help



Press **HELP** button.

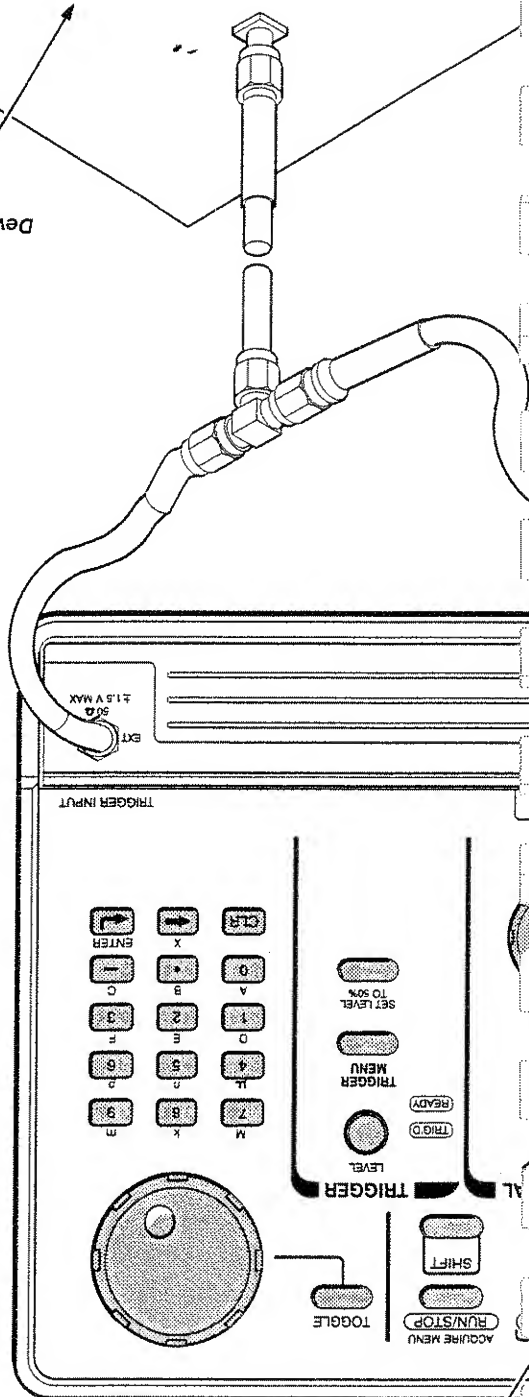


Now turn any knob or press any button and read a description of it on the display.

Press **HELP** button again to exit help.

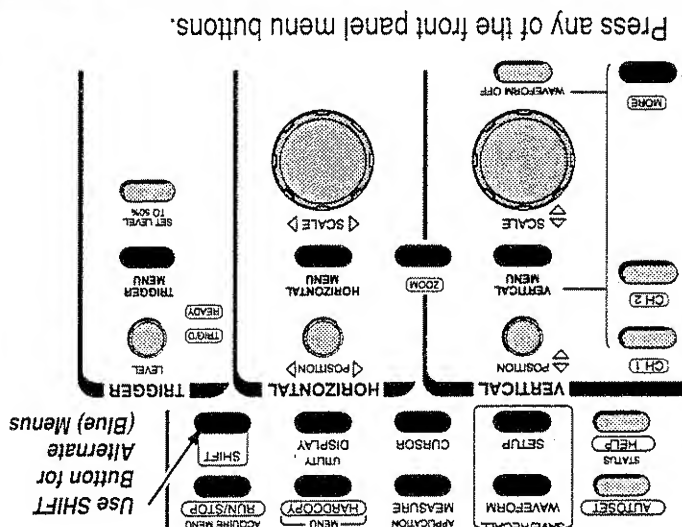
Adjust **VERTICAL** and **HORIZONTAL** POSITION and SCALE as desired

5

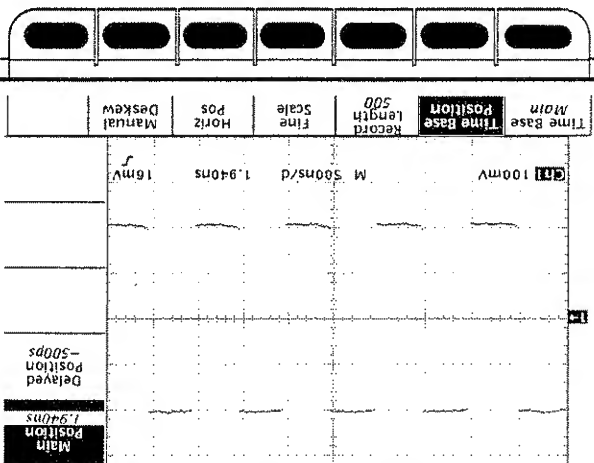


Device Under Test

Operating a Menu

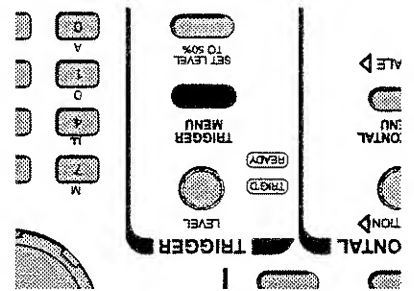


Select an item from the main menu.

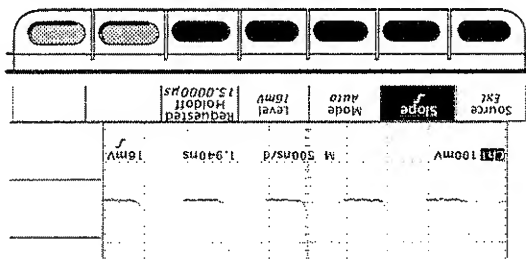


Triggering

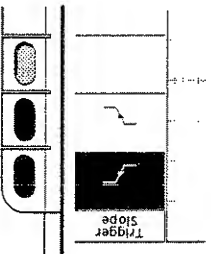
Press TRIGGER MENU button.



Select trigger parameter from main menu.

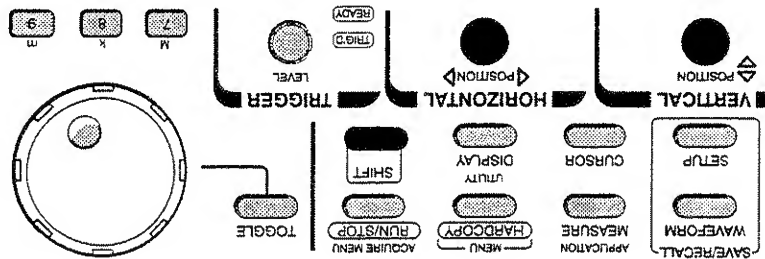


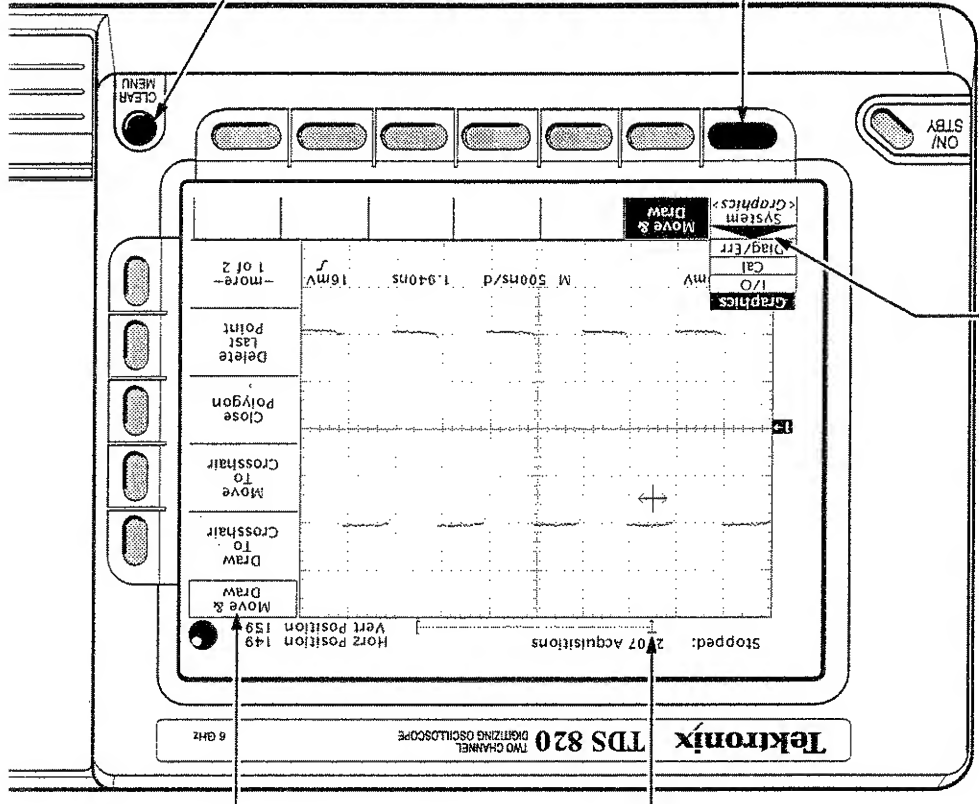
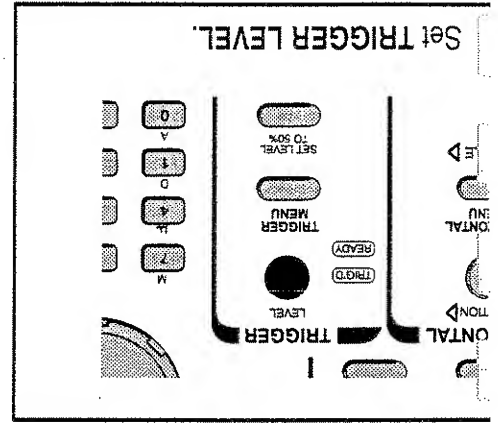
Select trigger slope.



Coarse Knobs

Press **SHIFT** button to change rate of VERTICAL and HORIZONTAL POSITION knobs and general purpose knob.





Indicates Pop-Up Menu

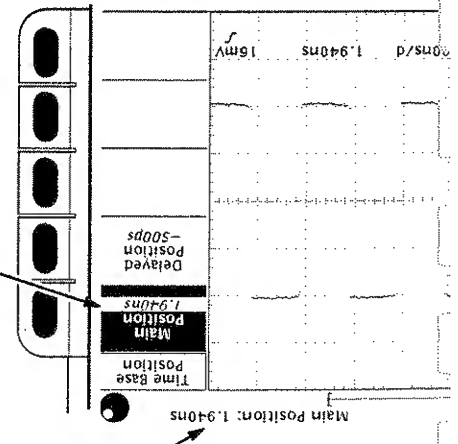
Press to Display Pop-Ups

Removes Menus from Screen

Press Again to Make Selection

A pop-up selection changes the other main menu items.

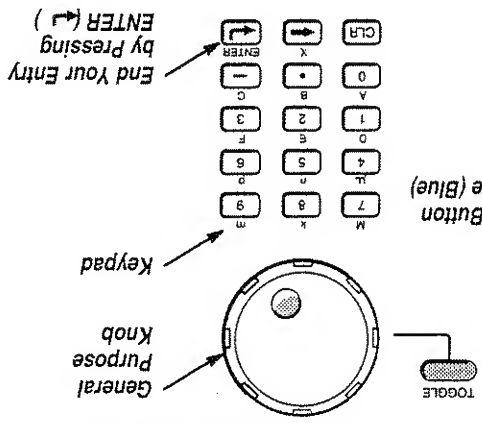
Select an item from the side menu, if displayed.



Readout Indicates Value can be Adjusted with General Purpose Knob or Keypad

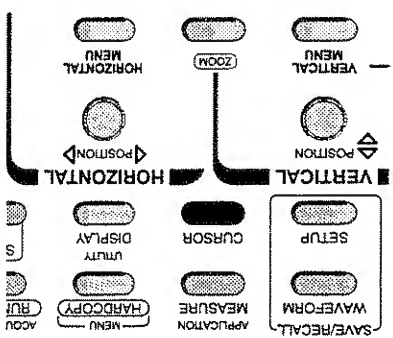
Adjustable Menu

Adjust menu item values with general purpose knob or by entering numbers on the keypad.

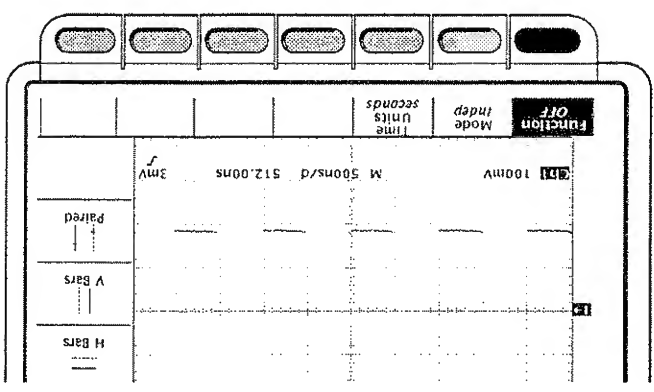


Cursor Measurements

Press CURSOR button.

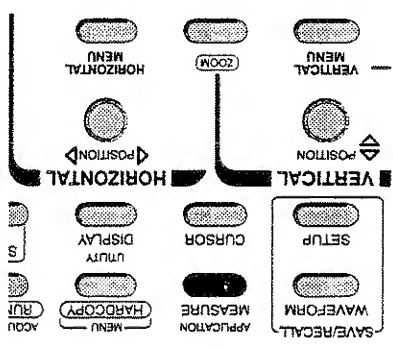


Press Function in main menu.

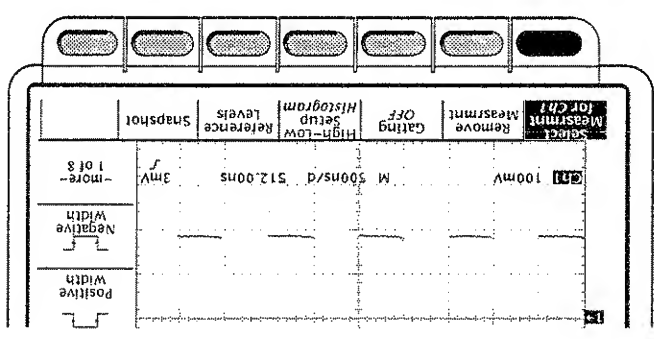


Automated Measurements

Press MEASURE button.




Press Select Measurement in main menu.

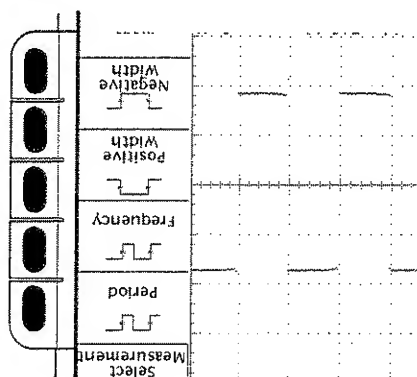


AUTOMATED MEASUREMENT SELECTIONS

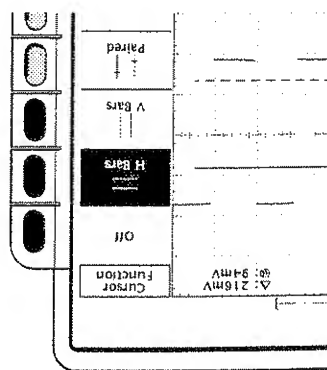
| | | | | | |
|--------------------|----------------|----------------|---------------------|---------------------|---------------|
| Select Measurement | Period | Frequency | Positive Width | Negative Width | -more- 1 of 8 |
| Select Measurement | Rise Time | Fall Time | Positive Duty Cycle | Negative Duty Cycle | -more- 2 of 8 |
| Select Measurement | Delay | Phase | Burst Width | | -more- 3 of 8 |
| Select Measurement | Positive Cross | Negative Cross | | | -more- 4 of 8 |
| Select Measurement | High | Low | Max | Min | -more- 5 of 8 |

| | | | | | |
|--------------------|-------|------------|--------------------|--------------------|---|
| Select Measurement | Area | Cycle Area | | |  -more- 8 of 8 |
| Select Measurement | Mean | Cycle Mean | RMS | Cycle RMS | -more- 7 of 8 |
| Select Measurement | PK-PK | Amplitude | Positive Overshoot | Negative Overshoot | -more- 6 of 8 |

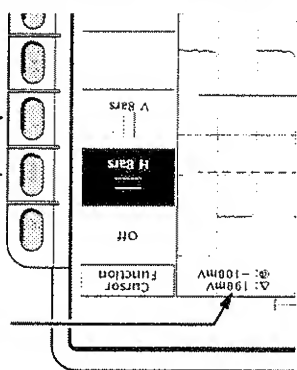
Select up to 4 measurements.



Select from side menu.



Move cursor with general purpose knob. Press **TOGGLE** to switch between cursors.



Read Measurement
D = Distance Between Cursors
@ = Position of Active Cursor

Measures Voltage
Measures Time

Measures Time

of Active Cursor

Between Cursors

375901

*Moves Measurement
Readouts Away from
the Graticule*

